Thermal activation of the process of current carrier trapping in crystal phosphors. Uch. zap. Osh. gos. ped. inst. rac.5: (MERA 18:2)

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L 6L16-66 EWT(1)/T LJP(c) 00 ACC NR: AP5027408 SOURCE CODE: UR/0181/65/00*/011/330*/3309 AUTHOR: Sidlyarenko, V. I.; Zaitov, F. N.; Lukantsever, Yu. L. ORG: Osh State Teachers' Institute (Oshskiy gosudarstvennyy pedagogicheskiy institute)	
TITLE: Effect of some structural factors on the thermal stability of color centers in alkali halide phosphor crystals SOURCE: Fizika tverdogo tela, v. 7, no. 11, 1965, 3302-3309	**************************************
ABSTRACT: The authors study the following factors with regard to their effect on the thermal stability of F-centers in NaCl-based phosphor crystals: 1. impurity tration of a given type of impurity ion; 3. plastic deformation; 4. previous thermal tabulated for NaCl phosphore activated by the llium, calcium, silver, strontium and cadmium. Some of the characteristics of thermal dissolution of color centers in	
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CHERNENKO, V.P.; LUKANTSEVER, Yu.L., ZAITOV, F.N.

Mechanism underlying the breakdown of color centers and the extinction of recombination luminescence in the NaCl - Cd c.ystal phosphor. Izv. vys. ucheb. zav.; fiz. 8 no.1:89-93 '65. (MIRA 18:3)

1. Oshskiy pedagogicheskiy institut.

EUKANTSEVER, Yu.L.; ZAITOV, F.N.; CHERNENKO, V.P.

Detailed study of the mechanism underlying recombination luminescence of the NaCl - Ag crystal phosphor. Izv. AN SSSR Ser. fiz. 29 no.1:54-58 Ja '65. (MIRA 18:2)

1. Oshskiy gosudarstvennyy pedagogicneskiy institut, KirgSSR.

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	ACC NR: AP6002080 -SOURCE CODE: UR/0139/65/000/006/0043/0047 AUTHORS: Chernenko, V. P.; Zaitov, F. N.; Lukantsever, Yu. L. //3 ORG: Osha State Pedagogical Institute (Oshakiy gospedinatitut) TITLE: Investigation of the mechanism of destruction of color centers and recombination luminescence of NaCl-Ag, Ca crystal	
	phosphor. II. Z/14/15-4 SOURCE: LVZ. Fixika, no. 6, 1965, 13-47 TOPIC TAGS: luminescence spectrum, color center, recombination luminescence, x ray irradiation, crystal phosphor, absorption	
	ABSTRACT: The first part of the article was published in Izv. vuzov SSSR, Fizika, no. 5, 97, 1965, and dealt with the integral thermal deexcitation, thermal discoloring, and the luminescence spectra of NaCl-Ag irradiated with x rays. The present investigation was made on a more complicated single-crystal phosphor NaCl-Ag (C.1 mol.%) Ca (0.3 mol.%), grown from the melt by the Kiropoulos method. The	

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A	1 39790-65 CD-2 SOURCE CODE: UR/0051/66/020/003/0450/0452 CC NR: AP6011555 SOURCE CODE: UR/0051/66/020/003/0450/0452 AUTHORS: Dudarev, Ye. S.; Zaltov, F. N.; Lukantsever, Yu. L.	
	ORG: none TITLE: Concerning the ionic mechanism of photometric disintegration of F centers in alkali halide crystal phosphors, photometric disintegration source: Optika i spektroskopiya, v. 20, no. 3, 1966, 450-452 TOPIC TAGS: alkali halide, crystal phosphor, color center, recombination emission, ionization, relaxation process tion emission, ionization, relaxation process ABSTRACT: The authors take exception to the prevailing opinion that the dependence of thermal and photometric stability of F centers is the dependence of new types of localization and recombination cendue to creation of new types of localization and recombination centers, which compete with the F centers in the capture of electrons. Experimental data on the factors that lead to destruction of color enters are more complicated than merely direct ionization of these centers are more complicated than merely direct ionization of these centers, so that the conditions under which the phosphor is prepared the presence of extraneous impurities in the crystal, the prior is the presence of extraneous impurities in the crystal, the prior is	

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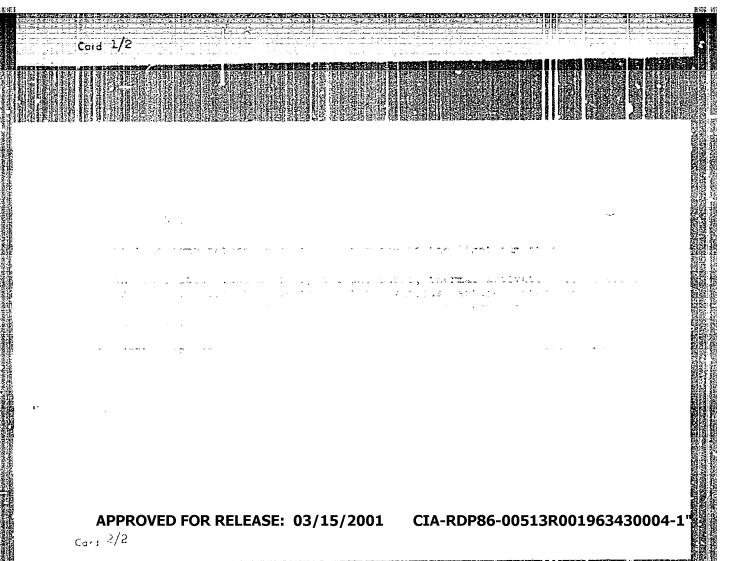
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tory of the sample, the form and temperature of excitation, and other factors influencing the stability are affected by the interaction between the ions that destroy the color centers and the color centers excited by the light. Using the results of an earlier paper on the subject (Mczhvuzovskiy sbornik nauchnykh rabot, seriya fiz.-mat. [Inter-University Collection of Scientific Papers, Physical-Mathematical Series], Frunze), they obtain an expression for the rate of change of thermal ionic destruction of color centers and from it a theoretical photothermal discoloring of F centers in NaCl-Ag phosphors. Certain numerical characteristics of these phosphors are obtained on the basis of the results. It is concluded that the influence of different factors on the stability of F centers can be satisfactorily explained from the point of view of the ionic mechanism of relaxation processes in alkali halide crystal phosphors. Orig. art. has: 6 formulas.

SUB CODE: 20/ SUBM DATE: OlJu164/ ORIG REF: Olo/ OTH REF: OOl

Concerning the thermal activation of the process of desture of charge degrees in crystal phosphors (C.T. CONCER Upon Map. Oshak. gos. ped. in-t., vyf. 5. 1063, 5-23

THANSLACION: The curves of fluorescence quenching, thermal degree tation, and



CHERNENKO, V.P.; ZAITOV, F.N.; LUKANTSEVER, Yu.L.

Characteristics of the light sum storage in KCL - T1, Ca crystal phosphor. Izv. vys. ucheb. zav.; fiz. no.6:34-36 '63. (MIRA 17:2)

1. Oshskiy gosudarstvennyy pedagogicheskiy institut Kirginskoy SSR.

ACCESSION NR: AP4025084

S/0139/63/0001/006/0034/0036

AUTHORS: Chernenko, V. P.; Zaitov, F. N.; Lukantsever, Yu. L.

Institute)

TITLE: On the characteristic of light-sum storage in KC1-T1, Ca-orystal phosphora

SOURCE: IVUZ. Fizika, No. 6, 1963, 34-36, and insert facing page 36

TOPIC TAGS: light-sum storage, phosphor, x-irradiation, thermoluminescence, luminescence intensity

ABSTRACT: The light-sum storage characteristic of single crystal KC1-T1 (0.1 mol%) Ca (0.5 mol%) phosphors has been investigated after x-irradiation in the x-ray instrument URS-55a (tube BSY-2, Cu; Y- 45 kv, I - 15 ma) for a 30- to 90-min duration. The thermoluminescence curves were recorded by means of EPP-C9 potentiometer with an FEO-20 amplifier for 30-, 45-, 60-min irradiation duration and one curve after a 17-hour pause. After each excitation-measurement cycle the thermoluminescence curves show a new change in the light-sum magnitude. It is believed that this effect follows from a process leading to actual lowering of luminescence intensity after repeated irradiation followed by an actual increase in luminescence intensity when the crystal undergoes a relaxation. "The authors wish to thank Iu. H. Yevstifeyev and Y. Ye. Chudenkov for their help." Orig. art. has: 1 figure.

Cord 1/ASSOCIATION: Oshskiy gospedinstitut, Kirghiz SSR(Osh State "seachers")

Thermal stability of F-centers in KCL -T1, Sr and KCl - T1, Ca crystal phosphore. Izv. vys. uchob. zav.; fiz. no.5:50-54 '63.

(MIRA 16:12)

1. Oshskiy gosudarstvennyy pedagogicheskiy institut.

CHERNENKO, V.P.; ZAITOV, F.N.; LUKANTSEVER, Yu.L.

Mechanism underlying the recombination luminescence of the crystal phosphor NaCl-Ag. Opt. i apektr. 15 no.1:83-88 Jl. '63. (MIRA 16:8)

(Phosphora)

ZAITOV, F. N.; LUKANISEVER, Yu. L.

Thermal discoloration of F-color centers in alkali metal halide crystals under optical conditions. Izv. vys. uch. sav.; fis. 3: 45-48 F62. (MIRA 15:10)

1. Oshskiy gosudarstvennyy institut Kirgisskoy SSR.

(Color centers)
(Alkali metal halide crystals—Thermal properties)

SIDLYARENKO, V.I.; LUKANTSEVER, Yu.L.; ZAITOV. F.N.

Distribution of Freenters in alkali halide crystal phosphors. Izv. vys.
ucheb.zav.; fiz.no.2142-45 '63.

(MIRA 16.5)

1. Oshskiy gosudarstvennyy pedagogicheskiy institut Kirgizskyy SSR.
(Color centers)

(Aikali metal halide crystals)

L 13100-63 EWT(1)/BDS AFFTC/ASD/35D ACCESSION NR. AP2003414 9 /0051 /63 /015 /001 / (R3 / 0032 AUTHOR: Chernenko, Y. P., Zaitov, F.A.; Lukantsever, Yu.L. TITLE: Investigation of the mechanism of recombination luminescence of MaCl: Ag cryatal phospher SOURCE: Optika i spektroskopiya, v.15, no.1, 1963, 83-88 TOPIC TAGI: luminosconos, glow curve, color center, luminoscence center, MaClifit : ABSTRACT: The authors carried out a comprehensive investigation of the recombination luminoscence of NaCl:Ag (0.1 mole percent Ag); the studies included record no integral glow surves, investigating the appetrs1 composition of the thermostims as spectra of protostimulated luminescence. The spectra were recorded by means of an SF-4 spectrophotometer coupled to an FEU-29 photomultiplier connected via a do amplifter to a loop oscillograph; the scanning rate from 2 to 6 eV was usually ?? sec. The spectra were corrected for the spectral consitivity of the protomistiplier and the dispersion of the monochromater. In addition, the excitation and emiss. It spectra were corrected for realisearity of the scan as regards for your the crystals were grown from a melt, some crystals were x-irradiated. Slove, garge Card 1/2

L 13100-63 ACCESSION NR: AP3003414 and spectra at different stages of thermostimulation and bleaching are reproduced.

The experimental data are analyzed and discussed. The data allow of determining the following of chair color centers are also the appearance of the solve.

respond the for the different glow peaks, it would appear that electrons released In the control that it is a first transfer to the pareterpate on each of the list

served glow peaks. The thermoluminescence spectra of NaCl: Ag change in the process of relaxation. At different stages of the relaxation process different centers may play the role of traps and/or luminoscence centers. "In conclusion, the authors empress their deep gratitude to Yu.N. Yevst) feyor and V.Ye. Chudenkov for ansistance in perforating the experiments. Originatihas: 2 formulas and 5 figures

ASSOCIATION: none

SUBMITTED: 12Sept62 DATE ACQ: 30Jule3

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OTHER: 004

CIA-RDP86-00513R001963430004-1" APPROVED FOR RELEASE: 03/15/2001

\$/058/62/000/008/037/134 A061/A101

AUTHOR:

Zaitov, F. N.

TITLE:

On the stability of F color centers in alkali halide crystal phosphors

PERIODICAL: Referativnyy zhurnal, Fizika, no. 8, 1962, 27, abstract 3V184

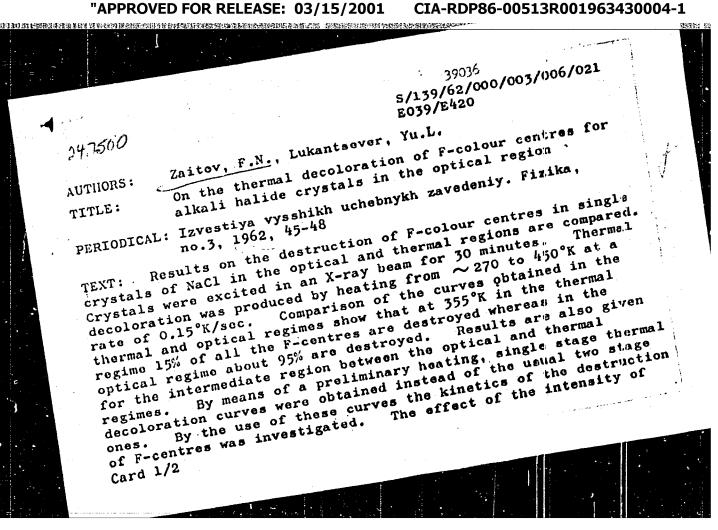
("Tr. In-ta fiz. i astron. AN EstSSR, 1961, no. 15, 138 - 148; sum-

mary in English)

The effect of impurity ions and plastic deformation on the optical and thermal stability of F centers in alkali halide crystals is investigated. The part played by ionic processes in F center thermal destruction is discussed.

[Abstracter's note: Complete translation]

Card 1/1



CIA-RDP86-00513R001963430004-1" **APPROVED FOR RELEASE: 03/15/2001**

39036 \$/139/62/000/003/006/021 E039/E420

On the thermal decoloration ...

excitation light is discussed and compared with theory. The second stage in the thermal decoloration curve coincides with the corresponding position on the thermal decoloration of M-absorption bands and the luminescence peak corresponding to the destruction of M-centres in NaCl crystals. The effect of the presence of M-centres on the destruction of F-centres is discussed in detail. There are 2 figures.

ASSOCIATION: Oshskiy gospedinstitut Kirgizskoy SSR

(Osh State Pedagogical Institute of the Kirgiz SSR)

SUBMITTED: March 10, 1961

Card 2/2

22164 5/048/61/025/004/013/048 B104/B201

24,350C

Lukantsever, Yu. L. and Zaitov, F. N.

TITLE:

Possibility of the thermal activation of the trapping of

charge carriers in crystal phosphors

PERIODICAL:

Izvestiya Akademii nauk SSSR. Eeriya fizioheskaya, v. 25,

no. 4, 1961, 473-476

TEXT: The present paper has been read at the 9th Conference on Luminescence (Crystal Phosphors), Kiyev, June 20-25, 1960. Results are presented relative to studies that indicate the possibility of a thermal activation of the trapping of charge carriers. The experiments were performed on

of the trapping of charge called the control of the trapping of charge called the control of the called the control of the damping curves near and in the range of thermal extinction of the damping curves near and in the range of thermal extinction of the damping curves near and in the range of thermal extinction of control of the damping curves near and in the range of thermal extinction of the luminescence were made; furthermore, the thermal decoloration and the spectra of excited absorption were studied. Concerning the Zn3-Cu phosphor it was possible to show that the light sums recorded in each of the

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Possibility of the ...

three groups of electron localization levels change nonmonotonically with changes of temperature. The ratio $\gamma = A_0/A_T$ as a function of temperature was shown to pass through a maximum. A_C is the trapping probability, A_T the recombination probability. $\gamma = \gamma(T)$ rises up to extinction, whereupon it drops to zero. The behavior of γ can be explained by considering the necessity of a thermal activation for the localization of electrons. Under these premises, γ can be represented by $\gamma = A_C/(A_T^T + A_T^{-1}) = \gamma_O/(1 + Ce^{-2C/kT})$. Here, A_T^T and A_T^{-1} denote the probabilities for radiative and radiationless recombinations, respectively. Ω is the activation energy for a radiationless recombination, γ_O and C are constants. It is further assumed that $A_C = fe^{-\Delta/kT}$, Δ being the activation energy for electron trapping at adhesion levels. γ is shown to pass through a maximum if $\Delta \cdot \Omega$. The mechanism of the destruction of color centers by ions in alkali halide phosphors is discussed next: A punctiform microdefect is formed in a given lattice site. The probability for such microdefects to be liberated is $P_V = P_{OV} \exp(-Q_V/kT)$, where Q_V denotes the activation energy. These punctiform microdefects interact with the T centers and destroy them, or T

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Possibility of the ...

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the microdefects interact with the dislocations and are "trapped" by them. Approximation equation

 $-dn_{F}/dt = P_{Qy} \frac{n_{y}}{\gamma_{0}N} n_{F} \exp(-(Q_{p} + Q_{y} - Q_{0})/kT)$

is obtained, where np denotes the number of F centers, n the number of sites at which the formation of free microdefects is possible, Q_p is the activation energy for the trapping of a microdefect by an F center, and Q_c the activation energy for the trapping by a dislocation. The factor in this equation depends upon the production conditions, and may take unusual high values exceeding the oscillation frequency of the ions. In the ensuing discussion, Ch. B. Lushchik made a brief report of results obtained at Tartu, and stated that values observed for the abovementioned factor amounted to as much as 10²² sec⁻¹. Adirovich, F. I. Vergunas, and F. N. Zaitcy are mentioned. There are 1 figure and 12 references: 11 Soviet-bloc and 1 non-Soviet-bloc. The reference to the Englishlanguage publication reads as follows: Ref. 4: Randall D. T., Wilkins, M. H. F., Proc. Roy. Soc. A., 184, 366 (1945).

Card 5/3

ZAITOV, F. N. Cand Phys-Math Sci -- (diss) "Study of the centers of capture and anisothermal relaxation processes in alkali-haloid crystallophori."

Tartu, 1957. 13 pp (Tartu State Univ), 100 copies. Bibliography: p. 13

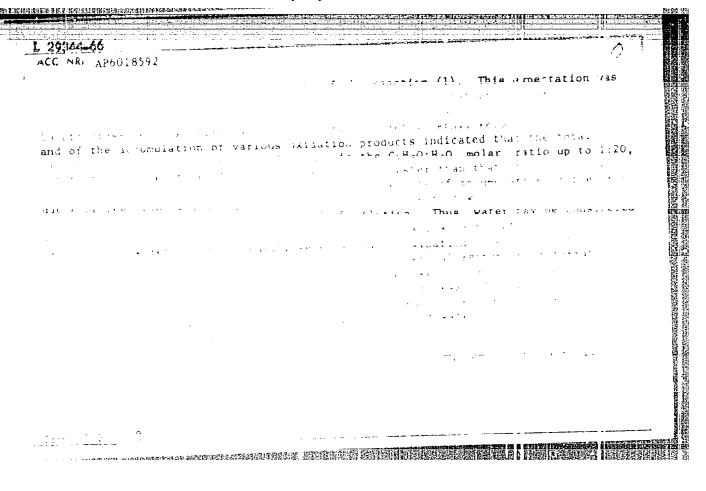
(13 titles) (KL, 13-58, 92)

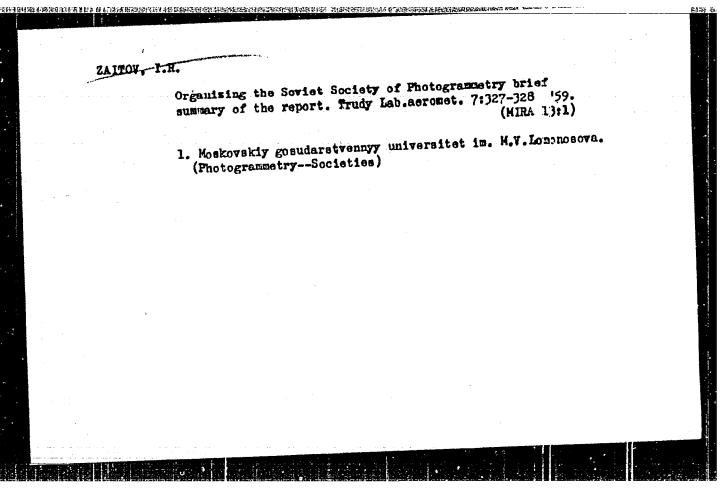
-6-

EMP(1)/EMT(m) 29344-66 SOURCE CODE: UR/0379/66/002/002/0204/0212 ACC NR. AP6018592 AUTHOR: Zaikov, G. Ye.; Kazancheva, S..D.; Yayzus, Z. K. 大大学は日本のあるとの あることのできることにはいいないので ORG: Institute of Chemical Physics, AN SSSR, Moscow (Institut khimicheskoy fiziki TITLE: Effect of water on the rate and course of oxidation of organic substances SOURCE: Teoreticheskaya i eksperimental'naya khimiya, v. 2, no. 2, 1966, 204-212 TOPIC TAG3: chemical reaction kinetics, oxidation reaction, reaction rate, methyl ethyl ketone, free radical reaction, oxidation kinetics ABSTRACT: A study was made of the effect of water as a polar solvent with a high dielectric constant on the kinetics of free radical reactions in the oxidation of polar organic compounds such as methyl ethyl ketone. A Earlier, the authors established that a nonpolar solvent (benzene) contributed to an increase in the relative yield of the products of peroxide radical decomposition: W_1 $RO_2 \longrightarrow R'CHO + R'O'$, (1)radicals containing fewer C atoms than the R radical.

Card 1/2 $RO_1 + RH \xrightarrow{\alpha r_1} RCOH + R$ (2)

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BOBIR, Nikolay Takovlevich; ZALTOV, L.P. aredaktor; KHROMCHENKO, F.I., redaktor izdatel'stva; TUZ'MIN, G.M., tekhnicheskiy redaktor

[Photogrammetry] Fotogrammetriia. Moskva, Izd-vo geodesicheskoi lit-ry, 1956. 335 p.

(Photogrammetry)

(Photogrammetry)

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396

Kozhevnikov, Nikolay Petrovich, and Zaitov, Izmail Rizauddinovich

注题,因为我们是不理论的是一种,但是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是这个人,我们就是这个人,我们就是 第一章

Fotogrammetriya (Photogrammetry) Pt. 2. Moscow, Geodezizdat, 1957. 139 p. 4,000 copies printed.

Gen. Ed.: Lobanov, A.N., Doctor of Technical Sciences, Professor; Tech. Ed.: Romanova, V.V.; Ed. of Publishing House: Wall'yeva, V.I.

PURPOSE: This textbook is intended for students pursuing courses in geodetic aerial photography at technical institutes. It is a continuation of an earlier volume written by Professor M. Aleksapol'skiy.

COVERAGE: The present volume (Part 2) describes photogrammetric condensation of basic maps by means of phototriangulation and phototraversing and analyzes the degree of accuracy of each technique. It discusses the interpretation of details in aerial photographs and topographic surveys achieved by combined air and ground

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Photogrammetry

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methods. The program of the book was worked out by N.M. Aleksapol'skiy, Professor of the Moscow Institute of Geodetic, Aerophotogrammetric and Cartographic Engineers, and an Honored Worker in Science and Technology of the USSR. The book was written under his supervision and guidance. The first section of the present volume traces the history and development of photogrammetric methods and discusses the principles of central planning, the essence of air surveying, photographic analysis, the determination of the position of observed individual points in aerial photographs, the utilization of parts of a photograph for a map, and the transformation of aerial photographs. The second section describes methods of developing the topographs, and surveying by combined aerial and ground methods. There are 20 references, all Soviet.

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ZAITOV, I.R., INDICHENKO, I.G.

Stereoscopic cameras for measuring purposes. Zhur. nauch. i prikl.
fot. i kin. 2 no.3:212-218 Ky-Je *57. (MIRA 10:6)

(Photogrammetry)

ZAITOV, I.R.; ZABIROV, R.D.; KNIZHBIKOV, Yu.F.; BRYUKHANOV, A.V.

Large-scale phototheodolite surveying of Tien Shan glaciere in
1955. Vest. Mosk. un. Ser. biol., pochv., geol., geog. 12 mo.l;
229-235 '57.

1. Kafedra kartografii Moskovskogo gosudarstvennogo universiteta.
(Tien Shan--Glaciers) (Photographic surveying)

ZAITOV, I.R.; ZBIROV, R.D.; KHIZHHIKOV, Yu.F.

Use of stereophotogrammetric surveying to compile a large-scale geomorphological map of special designation. Vest. Hosk.un, Ser. biol., pochv., geol., geog. 12 no.2:213-222 '57. (MIRA 10:10)

1.Kafedra kartografii Moskovskogo universiteta.
(Photographic surveying)
(Cartography)

soy/154-58-1-8/22 Zaikov I Rep Candidate of Technical Sciences, Indichenko.

AUTHORS:

I. G., Engineer

TITLE:

The Spectral Reflectance of Some Types of Soil (O spektral)

noy otrazhatel'noy sposobnosti nekotorykh tipov pochv)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i aero-

fotos"yemka, 1958, Nr 1, pp 57-64 (USSR)

ABSTRACT:

The photographic qualities of air photographs depend on the accuracy of the photogrammetric measurements. En perfecting the photographic qualities of air photographs, however, the optical properties of the objects to be photographed are highly important. The first tests in this field (in particular, as 'to recognizing the spectral reflectance of the soil) were carried out by G. A. Tikhov, Corresponding Member, Academy of Sciences, USSR. Later on they were continued by Ye. L. Krinov. The reflectance of solid wooded areas was investigat. ed by A. K. Pronin. In 1955 and 1956 the investigations were continued systematically by the Laboratoriya aerofotometodov kafedry kartografii MGU (Laboratory of Aerophotographic Methods, Department of Cartography, Moscow State University).

Card 1/2

The Spectral Reflectance of Some Types of Soil

SOV/154-58-1-8/22

These tests were performed by means of reflector monochrometer (Type 3MP-2). The results of the tests were reproduced in a diagram. It was discovered that all terrains tested (ground sections) have a comparatively low reflection coefficient. The reflectance largely depends on the respective surface character of the soil, also soil humidity exercising an essential influence on the soil reflectance, which could be observed with certainty in the test. Dry soil reflects twice as much as humid soil, although the diagrams do not show any remarkable change in this case. There are 15 figures.

ASSOCIATION: Moskovskiy Gosudarstvennyy universitet imeni M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

Card 2/2

ERIUKHANOV, A.V.; ZAITOV, I.R.; IAPPO, I.A.

Contents and symbols of large-scale glacier maps. Inferm. sber. e rab. Geog. fak. Meek. ges un pe Meshdunar. geofis. gedu no.1:111-123
158.

(Qlaciers—Haps)

SOV/154-58-3-10/24

AUTHORS:

Zaitov, T. R., Decent, Candidate of Technical Sciences,

Tamitskiy, E. D., Engineer

TITLE:

On the Problem of the Quantitative Photometric Interpretation of the Discriminative Properties of Spectrozonal and Color Material for Aerial Photography (K voprosu o koluchestvenney fotometricheskoy otsenke deshifro vochnykh svoystv

spektrozonal nykn i tsvetnykh aerofotomaterialov)

PERIODICAL:

Izvestiya vyschikh uchebnykh zavedeniy. Geodeziya i

aerofutos"yemka, 1958, Nr 3, pp 95-98 (USSE)

ABSTRACT:

This is a presentation of a new method of increasing the accuracy in estimating the discriminative properties of various types of photographic color materials. The procedure is as follows: A negative is assumed to incorporate features of three different types of timber, for example fir, birch, and oak trees. The photoelectric photometer measures the density bod the features of all three types of timber. Everaged densities are obtained from measuring 100 specimens of each type of timber. They are plotted in a diagram. The distribution of the points along the coordinate axis permits to determine to what

Card 1/3

On the Problem of the Quantitative Photometric Interpretation of the Discriminative Properties of Spectrozonal and Color Material for Aerial Photography

degree the densities of the images of one group of objects differs from another. This method is most effective in estimating the discriminative properties of two-layer color photographic materials. The density of each layer can be measured at any point of the negative. In three-layer negatives the method of quantitative estimation is complicated by the necessity of establishing a three-coordinate frame of reference. In this case the color shade or the negative can be determined according to the international system of color coordinates XYZ with the aid of a visual colorimeter. The ranges of straying are entered into the standardized color diagram. The advantage offered by this method is self-evident in particular with twolayer negatives which are also referred to as spectrozonal negatives. The method was successfully tested in the Laboratory of Aerial Photography Methods of the Chair of Cartography at the MGU. There are 4 figures and 1 reference, tof which is Soviet.

Card 2/3

On the Problem of the Quantitative Photometric Interpretation of the Discriminative Properties of Spectrozonal and Color Material for Aerial Photography

ASSOCIATION:

Moskovskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni Gosudarstvennyy universitet im. M. V. Lomonosova (Moscow Lenin Order and Order of the Red Labor Bannery State University ineni M. V. Lomonosov)

SUBMITTED:

December 3, 1957

Card 3/3

98-58-4-13/18 AURHORS: aitow, I.R., Candidate of Technical Sciences; Endichenko, I.G. and Knizhnikov, Yu.F., Engineers TITLE: Using Phototheodolites for Obtaining Plans of the Water Surface in the Spanning of the Angara River (Primeneniye fotcteodolita dlya polucheniya planov vodnov poverkhnosti pri perekrytii r. Angary) TERIODICAL: Gidrotekhnicheskoye Stroitel'stvo, 1958, Nr 4, pp 49-51 LBSTRACT: The photogrammetric method is being increasingly applied in the investigation of wave formations on seas, lakes and reservoirs. In many cases this method appears to be the only one for registering and measuring the wave relief; this method is also used for investigating the form of the free water surface over the embankment of a river dam. Such was the case in 1956 at the construction of the Irkutsk Hydroelectric Fower Plant, when photogrammetry was applied with a view to obtaining plans of the water surface below the pontoon bridge across the Angara river. The stereo-photography of a water curface of 10 x 150 sq meters was carried out with two phototheodolites "FTN" with an electrically-synchronized shutter-release device; panchromatic photo plates with 100 units (Gost) sensitivity were used, making a total of 18 photos. Each stereo couple was Card 1/2

98-58-4-13/18

Using Phototheodolites for Obtaining Plans of the Water Surface in the Spanning of the Angara River

divided into three sections - the first consisting of small waves and surf, the second - of crests and hollows of stabile waves. The photogrammetric plotting of the perspective model of the water surface in the orthogonal plan at a scale 1:300 was done on the large stereo-autograph of Zeiss. Figure 3 shows one of these plans and Figure 4 - the corresponding phototheodolite picture. To avoid blurred photos it is advisable to use a shutter speed of not less than 1/25 sec. Dead angles can be avoided by taking stereo-photos from two basic points with 4 phototheodolites which must be equipped with cynchronized shutter release devices. There are 4 figures.

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Card 2/2

1. Phototheodolites-Applications 2. Water waves-Analysis

....sov/154-59-5-13/17 3(4), 25(1) Zaitov. I. P. Docent, Candidate of Technical Sciences, AUTHORS: Indichenko, I. G., Engineer A Method Used to Determine the Conjugated Focal length and the TITLE: √ Photogrammetric Distortion of Measuring Cameras Intended for Close-ups PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i aerofotos"yemka, 1959, Nr 5, pp 145-148 (USSR) Since there are only goniometers available for the focusing of a phototheodolite for infinity, the development of a device with adjustable focal length proved to be necessary for closeups. The authors report on the development of such a device by the Laboratoriya aerofotometodov kafedry geodezii i kartografii Moskovskogo Gosudarstvennogo Universiteta im. M. V. Lomonosova (Laboratory for Methods of Aerial Survey of the Chair of Geodesy and Cartography of Moscow State University imeni M. V. Lomonosov). These devices allow to determine the focal length and the photogrammetric distortion of the camera when photographing objects at a distance of 1 m up to infinity. Its principal parts are collimator 1, focused for infinity, a Card. 1/2

A Method Used to Determine the Conjugated Focal Length and the Photogrammetric Distortion of Measuring Cameras Intended for Close-ups

goniometer used to level the instrument to be adjusted, and collimator 3 with variable focusing. These instruments are mounted on an OS-2-type optical bench (Figs 1-4). The total device is adjusted by the usual optical methods. Experiments proved its applicability. There are 4 figures.

ASSOCIATION:

Moskovskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni Gosudarstvennyy Universitet im. M. V. Lomonosova (Moscow Order of Lenin and Order of Red Banner State University imeni M. V. Lomonosov)

SUBMITTED: (

October 30, 1958

Card 2/2

ZAITOV, I.R.

Transactions of the Laboratory (Genta) of Aerosethods, AS USSECV/3815

V.7, Materials of 7th AU Interdept Conf. Aerial Survey (Dec 56), Moscow, 1959, 331pp.

Zaitov, I.R. [Moscow State University imeni M.V. Lomonosov].

Organization of the Soviet Photogrammetric Society

(Short Synopsis of the Report)

327

AVAILABLE: Library of Congress

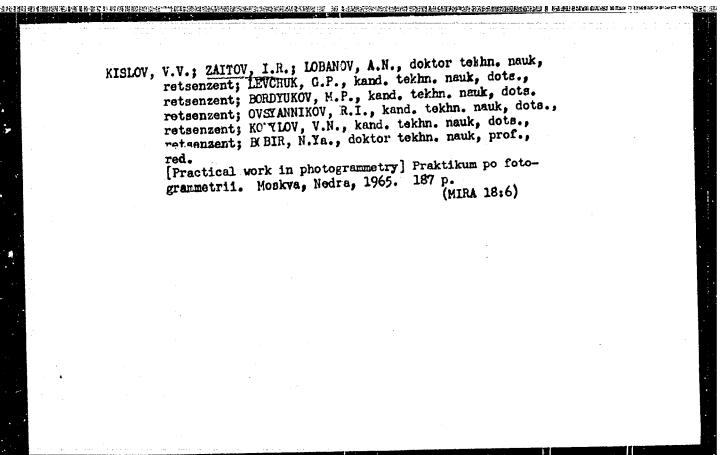
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ZAITOV, I.R.	
Transactions of the Laboratory (Geet.) of Laronethods SOV/3815 AND Vall, Materials of 7th AU Interdept Conf. Aerial Survey (Dec 56), Mos Drobyshev, F.V. [Moscow Institute of Geodetic, Photogrammetric and Cartographic Engineering]. Stereoscopic Plotting of Intersections [Plane Diagrams of Space Intersections]	USSR secu, 1959, 331pp.
Sokolovskaya, Ye.I. [Vsesoyuznyy topographo-marksheyderskiy trest (Soyuzmarkshtrest) - All-Union Topographic Surveying Trust]. Stereotopographic Mapping at a 1:2000 Scale	131
 Sventsitskiy, S.A. [Tashkentskiy institut inzhenerov irrigateii i mekhanizatsii sel'skogo khozysystva - Tashkent Institute of Agricult Irrigation and Mechanization Engineering]. (!omplex [Integrated] Large-Scale Mapping of Small Areas	135
Zaitov, I.R. [Moskovskiy gosudarstvennyy universitet imeni M.V., Lomonosova - Koscov State University imeni M.V., Lomonosov]. Stereoscopic Cameras for Measurements	139
 Finkovskiy, V.Ya. [Novosibirskiy institut inzhenerov geodezii, aerofotos''yemki i kartografii - Novosibirsk Institute of Geodetic, Fhotogrammetric, and Cartographic Engineering]. The Theory of the Stereocomparagraph	247
Card 6/15	

ZABIROV, Rashid Dzhamaliyevich, kand. tekhn. nauk; KNIZHNIKOV, Turiy Firsovich, inzh.; ZAITOV, L.R., kand. tekhn. nauk, otv. red.; REVINA, Ye.A., red. izd-va; AHOKHINA, M.G., tekhn. red.

中国企业的企业,在1900年,19

[Phototheodolite surveying of the Tien Shan glaciers during the I.G.Y.]Fototeodolitnaia stemka ledníkov Tian-Shania v period MGG. Frunze, Izd-vo Akad.nauk Kirgizskoi SSR, 1962. (MIRA 15:9)
99 p.
1. Direktor Tyan-Shan'skoy fiziko-geograficheskoy startsii (for Zabirov). 2. Laboratoriya aerofotometodov Moskovskogo gosudarstvennogo universiteta (for Knizhnikov). 3. Zaveduyu-shchiy laboratoriyey aerofotometodov Moskovskogo gosudarstvennogo universiteta (for Maitov). (Tien Shan-Glaciers)

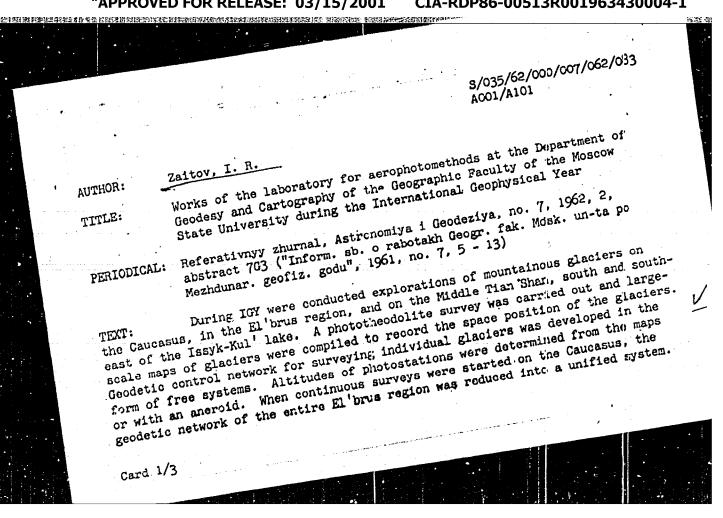


ZAITOV, I.R., dotsent, kand.tekhn.mauk; IMDICHEHKO, I.G., insh.

Apparatus for determining the conjugate focal distance and photogrammetric distortion of measuring cameras used in the photography of near objects. Izv.vys.ucheb.zav.; geod.i aerof. no.5:145-148 '59'. (MIRA 13:3)

1. Koskovskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni Gosudarstvennyy universitet im. M.V.Lomonosova. (Aerial photogrammetry)

ZAITOV, I.R. Stereoscopic cameras for measuring purposes. Trudy Lab.seromet. 7:139-146 '59. 1. Moskovskiy gosudarstvennyy universitet in. M.V. Lomonosova. (Photogrammetry.—Equipment and supplies) (Cameras)



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Works of the laboratory for ...

A Φ TH (FTN) phototheodolite was employed in surveys; the size of photographs was 13 x 18 cm and the main distance was 193 mm. A TE-1 (TE-1) optical theodolite was added to the instrument set for accomplishing geodetic operations. A twin stereophotogrammetric CKM-4 (SKI-4) camera was used for studying salt flowage processes, adjusted for surveying closely located objects. A conventional 35-im wide film was used for filming. To determine glacier positions, phototheodolite survey was repeated annually during IGY. In 1957 an aerophotosurvey in the region of El'brus glaciation was performed. Aeriai photographing was made from a jet aircraft and an altitude of 9,000 m with an aerial camera with $f_{\rm k}$ = 200 mm and photograph size 30 x 30 cm. Two types of aerial films were used: panchromatio and three-layer color, UH -1 (TsN-1), which makes it possible to obtain positive colored images of objects close to the natural color. In the process of glaciological studies, contact imprints from both types of film were used, as well as rectifier. Rectification was made by points taken from a topographic map. Studies on deciphering phototheodolite photographs were accomplished, as applied to compiling glacier maps. Deciphering properties of conventional black-and-white and color aerial photographs were compared under office and field conditions. It

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Works of the laboratory for ...

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has been established that application of color aerial photographs does not improve the possibility of singling out ice, firm and snow on photographs. The compiled maps of glaciers were compared with 1:20,000 maps for the Caucasus glacier region, compiled on the basis of data of the phototheodolite survey performed in 1911 by the German explorer Burmistr, which permitted determination of changes in the position of the glacier during 50 years. As a result of the work, the legend of large-scale glacier map was compiled, large-scale maps of glaciers of the Middle Tian-Shan and El'brus were compiled, and the album of large-scale maps of Tian-Shan glaciers was prepared; the atlas of maps of El'brus glaciers is being compiled.

I. Mityachkin

[Abstracter's note: Complete translation]

Card 3/3

Work of the laboratory of aerial photographic methods of the Department of Geodesy and Cartography of the Geography Faculty of the Moscow State University during the International Geophysical Year. Inform.sbor. o rab. Geog. fak. Mosk. gos., un. po Mezhdunar. geofiz. godu no.7:5-13 '61. (MIRA 15:11) (Glaciers) (Aerial photogrammetry)

MAKKAVEXEV, N.I., prof.; KHNELEVA, N.V.; ZAITOV, I.R.; LEHEDEVA, N.V.;
MEDVEDEV, V.S.; LAZAREVA, L.V., tekhn. red.

[Experimental goomorphology] Eksperimental*naia geomorfologiia.

By N.I.Makkaveev i dr. Moskva, Izd-vc Mosk. univ., 1961. 193 p.

(Geological rosearch)

(Geological rosearch)

AUTHOR: Smetanin, N.	L. Zairoy, K. S.J.	Akhmodzhanzy. K.	lile .	<i>₹</i> ;
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TITLE: Certain question	ns concerning sanite	ury and hyganic eve	altuation of the use	e of
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SOURCE: Meditsinskiy	zhurnal Uzbeldstana	no. 4, 1965, 3-7		-
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FSS-2/EWT(1) IJP(a) JGS/GD/G# SOURCE CODE: UR/0000/66/000/000/0146/0149 ACC NRI AT6026453 Zaitov. I. R. AUTHOR: ORG: none TITLE: Activities of the laboratory of aerial photographic methods of the Geographic Faculty, Mosco. University, connected with the interpretation of aerial photographs SOURCE: AN SSSR. Mezhduvedomstvennaya komissiya po seros"yemke. Tecriya i praktika deshifrirovaniya aerosnimkov (Interpretation of aerial photographs in theory and practice). Moscow, Izd-vo Nauka, 1966, 146-149 TOPIC TAGS: aerial photography, optic scanning, geophysic research facility, geographic research facility, geographic survey, aerial survey, photo interpretation ABSTRACT: The basic task of the scientific research laboratory of aerial photographic methods of the Department of Geodesy and Cartography of Moscow University (nauchnoissledovatel skaya laboratoriya aerofotometodof kafedry geodezii i kartografii

Moscovskogo universiteta) is the extension of the region of applicability of aerial photography methods in geological and geographic surveying of territories and the increase in efficiency of such wethods. The operation of the laboratory follows two main directions: 1) the study of problems of immediate practical importance (e.g., investigation of the Ryazan Oblast' in conjunction with the plans of the III Inter-

Card 1/2

	national Ge	ophysica	1 Year)	and 2)	activit	ies more	intim	itely (connec	itied w	ith th	e inte	er-
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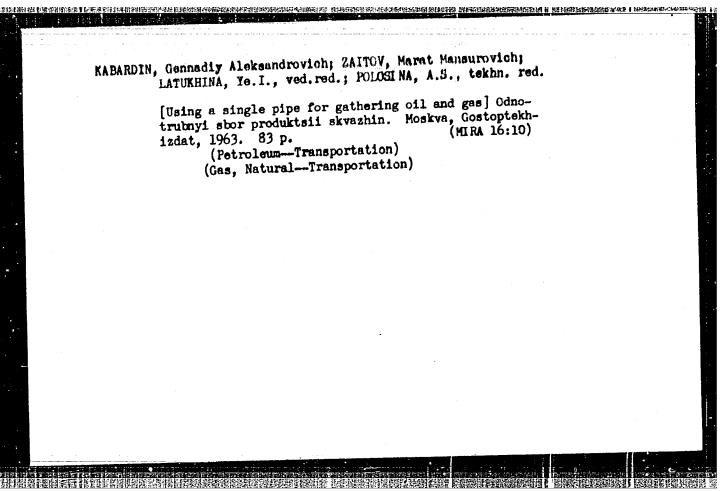
PESIN, N.Ya.; BRALIN, Zh.B.; ALOTIN, L.M.; ZAITOV, M.A.; GERT, A.P.

Analysis of the degree of difficulty in underground haulage operations in Karaganda Basin mines. Nauch. trudy KNIUI no.14: (MIRA 18:4)

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47	
AUTHOR: Zaitov, M. M.; Shekun, L. Ya.	
ORG: Kazan' State University im. V. I. Ul'yanov-Lenin (Kazanskiy gosudar stvennyy uni-	
versitet)	
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Volunteer design offices in Leninogorsk. Neftianik 7 no.7:3-5 Jl (62. MIRA 16 3) 1. Predsedatel' Soveta obshchestvennykh konstruktorskith byuro neftepromyslovozo upravleniya Leninogorskneft!. (Leninogorsk (Tatar A.S.S.R.)—Oil fields—Equipment and supplies)	Predsedatel Soveta obshchestvennykh konstruktorskik byuro	
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Calculating the oxidation of coke on a catalyst. Trudy
BeshNII NP no.6:49-63 '63. (MIR/: 17:5)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963430004-1"

INVENTOR: Volkova, L. I.; Zaitova, A. Ya.; Ioakimis, A. A.; Mochal'nikova, T. P.; Nazarova, L. Yu.; Nazarov, V. I.; Pryakhina, M. S.; Petrov, V. N.; Rachkovskiy, E. E.; Savel'yev, A. P.; Syrova, A. A.; Tikhanovskaya, S. G. ORG: none TITLE: A method for producing normal butanol by synthesis from ethyl alcohol. Class 12, No. 175929 [announced by the Bashkir Scientific Research Institute for Fetroleum Refining (Bashkirskiy nauchno-issledovatel'skiy institut po pererabotke nefti)] SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 12 TOPIC TAGS: catalysis, butanol, ethyl alcohol ABSTRACT: This Author's Certificate introduces: 1. A method for producing normal butanol by synthesis from ethyl alcohol on a catalyst. The process is done in a single stage by using a catalyst consisting of aluminum oxide, magnesium oxide, silicon oxide and a salt or oxide of an alkali metal. 2. A modification of this Card 1/2 UDC: 66.097.1: 547.264.07	L 13292-66 EWT(m)/EWP(j) RM ACC NR: AP6000325 (A) SOURCE CODE: UR/0286/65/000/021/0012/001	
Nazarova, L. Yu.; Nazarov, V. I.; Pryakhina, M. S.; Petrov, V. N.; Rachkovskiy, E. E.; Savel'yev, A. P.; Syrova, A. A.; Tikhanovskaya, S. G. ORG: none TITLE: A method for producing normal butanol by synthesis from ethyl alcohol. Class 12, No. 175929 [amnounced by the Bashkir Scientific Research Institute for Petroleum Refining (Bashkirskiy nauchno-issledovatel'skiy institut po pererabotke nefti)] SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 12 TOPIC TAGS: catalysis, butanol, ethyl alcohol ABSTRACT: This Author's Certificate introduces 1. A method for producing normal butanol by synthesis from ethyl alcohol on a catalyst. The process is done in a single stage by using a catalyst consisting of aluminum oxide, magnesium oxide, silicon oxide and a salt or oxide of an alkali metal. 2. A modification of this	VOLUME: 1850000353 (M) 2008CF CODE: 08/0386/65/000/031/0013/001	<u> </u>
ORG: none TITLE: A method for producing normal butanol by synthesis from ethyl alcohol. Class 12, No. 175929 announced by the Bashkir Scientific Research Institute for Fetroleum Refining (Bashkirskiy nauchno-issledovatel'skiy institut po pererabotke nefti)] SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 12 TOPIC TACS: catalysis, butanol, ethyl alcohol ABSTRACT: This Author's Certificate introduces: 1. A method for producing normal butanol by synthesis from ethyl alcohol on a catalyst. The process is done in a single stage by using a catalyst consisting of aluminum oxide, magnesium oxide, silicon oxide and a salt or oxide of an alkali metal. 2. A modification of this	INVENTOR: Volkova, L. I.; Zaitova, A. Ya.; Ioakimis, A. A.; Mochal'nikova, T. P. Nazarova, L. Yu.; Nazarov, V. I.; Pryakhina, M. S.; Petrov, V. N.; Rachkovskiv.	• <u>•</u> •
TITLE: A method for producing normal butanol by synthesis from ethyl alcohol. Class 12, Ko. 175929 [announced by the Bashkir Scientific Research Institute for Fetroleum Refining (Bashkirskiy nauchno-issledovatel skiy institut po pererabotke nefti)] SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 12 TOPIC TAGS: catalysis, butanol, ethyl alcohol ABSTRACT: This Author's Certificate introduces: 1. A method for producing normal butanol by synthesis from ethyl alcohol on a catalyst. The process is done in a single stage by using a catalyst consisting of aluminum oxide, magnesium oxide, silicon oxide and a salt or oxide of an alkali metal. 2. A modification of this	E.; Savel'yev, A. P.; Syrova, A. A.; Tikhanovskaya, S. G.	
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method in which the catalyst contains from 5 to 80 % aluminum oxide, from 95 to 10 % magnesium oxide, from 0 to 50 % silicon oxide and from 0 to 5% of a salt or oxide of an alkali metal. SUB CODE: 07/ SUBM DATE: 11Apr63/ ORIG REF: 000/ OTH REF: 000		: NR:													•					U		
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MASAGUTOV, R.M.; DANILOVA, R.A.; ZAITOVA, A.Ya.; GILYAZEV, N.G.; ZAGRYATSKAYA, L.M.; BUGAY, Ye.O.; PRYAKHINA, K.F.

High-temperature catalytic cracking of heavy fractions of straight-run gasoline. Trudy BashNII NP no.6:14-18 '63. (MIRA 17:5)

ADEL'SON, S.V.; ZAITOVA, A. Ya.

Kinetic calculation of the regenerator of a catalytic cracking unit on a bead catalyst. Khim. i tekh. topl. i masel 9 no.5: 48-52 5 My*64 (MIRA 17:7)

1. Moskovskiy ordena Trudovogo Krasnogo Znameni institut neftekhimicheskoy i gazovoy promyshlennosti imeni akademika Gubkina i Bashkirskiy nauchno-issledovatel*skiy institut po pererabotke nefti.

ZALTOVA, A.Ya.; MASAGUTOV, R.M.; VOL'FSON, I.S.; KIRILLOV, T.S.; DOBREYKIN, V.Ye.

CHARLET CONTROLLE LOS CONTROLES CONT

Purifying the reflux of units for thermal bracking on an aluminosilicate catalyst. Trudy Bash NINP no.5:56-68 '62.

(MIRA 17:10)

ADELISON, S.V.; ZAITOVA, A.Ya.

Effect of the specific consumption of air on the kinetics of the oxidative regeneration of a cracking catelyst. Khim. i tekh. topl. i masel 8 no.4:16-20 Ap 163. (MIRA 16:6)

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(Cracking process) (Oxidation)
(Aluminosilicates)

EIGENSON, A.S.; ADEL'SON, S.V.; MASAGUTDY, R.M.; ZAITOVA, A.Tg.,

Admissible residual coke content during catalytic cracking.

Trudy BashHII MP no.1:145-155 '59. (MIRA 12:6)

(Cracking process) (Catalysts) (Coke)

MASAGUTOV, R.M.; SHESTAKOVA, N.M.; MIKHAYLOVA, M.G.; GILYAZEV, N.G.; ZAITOVA, A.YO.; VOLKOVA, L.I.

Effect of the firing temperature of a catalyst during preparation on its mechanical strength. Trudy Bash NII NP no.3:166-170 '60. (NIRA 14:4)

(Catalysts) (Cracking process)

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ADEL'SON, S.V.; ZAITOVA, A.Ya.

Effect of the granulometric composition of catalyst on its regeneration rate. Khim. i tekh. topl. i masel 8 no.9: 20-23 8 '63. (MIRi 16:11)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. akad. Gubkina i Bashkirskiy neftyanoy nauchno-issledovatel'skiy institut.

MASAGUTOV, R.M.; SHESTAKOVA, H.M.; MIEHAYLOVA, M.G.; GILYAZEV, H.G.; ZAITOVA, A.Ya.; VOLKOVA, L.I.

在14年间,在14日的中华4日间产生15日前,大学16年的大学的学生的特色的关系在沙漠里的特殊的影响。在14年间,最后的大学的影响的最后的是19月1日的第一日的

Effect of temperature during calcination on the mechanical strength of catalysts. Thim, i tekh.topl. i masel 14 no.1: 69-71 Ja 159. (MIRA 12:1)

1. Bashkirskiy nauchno-issledovatel skiy institut neftysnoy promyshlennosti. (Catalysts)

EYGENSON, A.S.; MASAGUTOV, R.M.; ZAITOVA, A. Ya.; VOLKOVA, L.I.; BERG, G.A.;
YEFIMOVA, A.K.

Effect of some physicochemical properties of raw stock on
catalytic cracking indices. Trudy. Bash NII NP no.3:19-32
(MIRA 14:4)
160.

(Cracking process)

ADEL'SON, S.V.; ZAITOVA, A. Ya.

Kinetics of the regeneration of spherical aluminosilicate catalysts. Trudy Eash NII NP no.3:171-180 '60. (MIRA 14:4) (Aluminosilicates)

ZAITS, L.P.; SAPOZHNIKOVA, O.V. Tuberculosis as a cause of diasbility among Sverdlovsk workers in 1956-1960. Probl.tub. no.7:7-11 '62. (MIRI 15:12)

> 1. Iz Sverdlovskogo nauchno-issledovatel'skogo instituta tuberkuleza (dir. - prof. I.A.Shakleia) i Gorodskoy vrachebnotrudovoy ekspertnoy komissii po tuberkulezu Sverdlovska (predsedatel 0.V.Sapozhnikova).
>
> (TUBERCULOSIS) (SVERDLOVSK—DISABILITY EV.

(SVERDLOVSK-DISABILITY EVALUATION)

ZAITS, L.P. (Sverdlovsk)

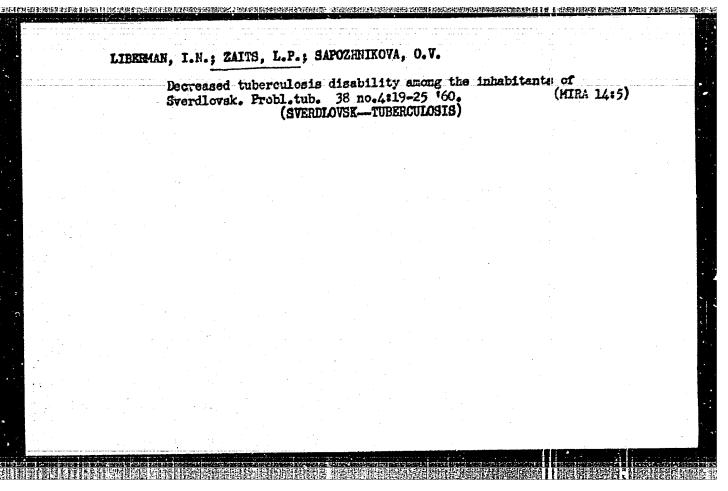
Lung cancer and other causes of death connected with smoking.

Yel'd. 1 akush. 24 no.5:50 Ky '59. (HIRA 12:8)

(LUNGS--CANCER) (TORACCO--PHYSIOLOGICAL EFFECT)

ZAITS, L.P. (Sverdlovsk)

Alcoholism and its consequences. Fel'd. i akush. 25 no.1:46-52
Ja '60. (MIRA 13:4)



COLYANSKIY, SH.TS., inzh.; KRIVUSHA, V.P., inzh.; ZAITS, O.F., inzh.

Improvement of the MGD-2 magnetic fault detecting scope.
Energetik 9 no.4:19-20 Ap '61. (MIRA 14:8)

(Pipe—Testing) (Magnetic instruments)

ZAITSEV, B.Ye.; SHEYNKER, Yu.N.; KORESHKOV, Yu.D.

Infrared spectra and structure of some nonbenzoid aromatic compounds.

Dokl.AN SSSR 136 no.5:1090-1092 F *61. (MTRA 14:5)

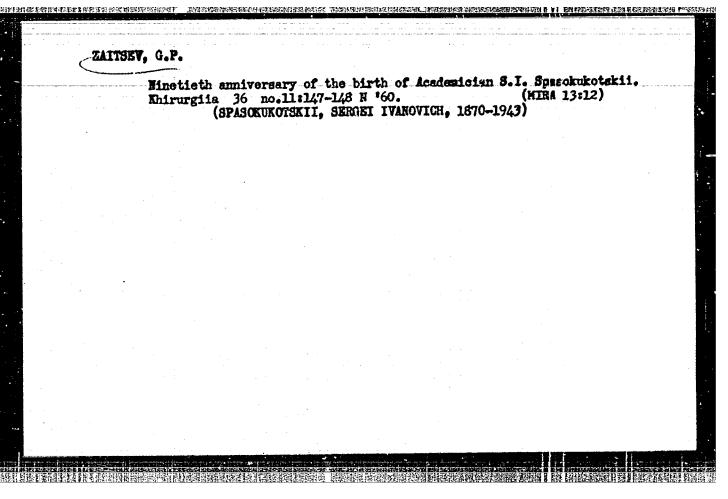
1. Institut khimii prirodnykh soyedineniy AN SSSR. Predsitavleno akad. M.M.Shemyakinym.

(Aromatic compounds—Spectra) (Carbonyl group)

ZAITSEV, G.P. (Moskva, ul. Chaykovskogo, d.7/1, kv.4); Yukhtin, V.I. (Moskva, G-48, Komsomol'skiy prospekt, 36, kv.35)

Problems in the surgical treatment of cancer of the large intestine. Vop. onk. 10 no.2:61-67 '64. (MIRA 17:7)

1. Iz kliniki obshchey khirurgii pediatricheskogo fakul'teta (zav. - zasiuzhennyy deyatel' nauki prof. G.P. Zaytsev) 2-go Moskovskogo meditsinskogo instituta imeni N.I. Pirogova.



Problems of renal pathology at the Twelfth All-Union Thurspeutic Conference held at Erivan on October 5-7, 1960, V.Zuitsev.

Kz. med. zhur. no.1:98-99 Ja-F'61 (MIRA 16:11

Industry-wide all-Union conference on dissel manufacture, Sudostrounte 30 no.7875 In '64.

The state of the s	ZAITSEV, V.F.; MYASNIKOV, L.A.									
	A study of experimental atherosclerosis with the aid of labelled cholesterol — 102. Cor vasa 5 no.2:114-119 '63. 1. Institute of Internal Medicine, Academy of Medical Sciences,									
	Moscow. (ARTERIOSCLEROSIS) (LIVER) (ADF	(CHOLESTEROL) RENAL GLANDS) ((CARBON ISO BRAIN) (BI	Topes) Ochemistry)						
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Zaitaeva, A.

Practical utilization of the gum and extractive Daurian-larch chips.

BIOLOGICHESKAIA NAUKA: SELSHONU L LASNO, U. (Latvijas PSR Zimutnu Akademija Biologijas Zinatnu nodala) Riga, Latvia, No. 16, 1958. In Kumian.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 8, August, 1959. Uncl.

39209 S/220/62/031/I)02/002/004 1018/1218

21.1210

do añol

Zaitseva, G. N. and Belozerskii, A. N.

AUTHOR: TITLE:

The effect of X-radiation on the metabolism of free nucleotides and on the enzymes of

nucleic acid metabolism of Azotobacter agills

PERIODICAL: Mikrobiologiya, v. 31, no. 2, 1962, 209-215

TEXT: X-radiation caused an accumulation of free mononucleotides (in A. agilis 22 H (22D)) mainly of nucleoside-monophosphates. The content of nucleoside-di, and particularly triphosphates greatly diminished. Xradiation inhibited oxidative phosphorylation and greatly supressed the activity of nucleoside phosphokinase which catalyzes transphosphorylation of mononucleotides. X-radiation reduced the activity of polynucleotide phosphorylase, and activated ribonuclease and an appreciable drop in RNA content of irruliated A. agilis cells was noted. X-radiation also stimulated the activity of DNase which brought about a decrease in DNA content in the irradiated cells. Since X-radiation brought about an inhibition of nucleoside phosphokinase and other enzymes involved in nucleic acid synthesis and stimulates the activity of hydrolysing enzymes, the nucleases, the de novo synthesis of nucleic acids was retarded or altogether arrested. Nucleic acids present in the cells prior to irradiation undergo decomposition. It has also been shown that X-radiation directly affects high-molecular polynucleotides.

Card 1/2

CIA-RDP86-00513R001963430004-1" **APPROVED FOR RELEASE: 03/15/2001**

ZAITSEVA, G.N.; BELOZERSKIY, A.N.; NOVOZHILOVA, L.P.

Studying phosphorus compounds in developing Azotobacter vinelandii by the use of D32. Biokhimiia 25 no.2:198-210 Mr-Ap 160.

(MIHA 14:5)

1. Biologo-pochvonnyy fakul'tot Gogudarstvonnogo univormitota im.

M.V.Lomonosova, Moskva.

(AZOTOBACTER)

(PHOSPHORUS METABOLISM)

ZAITSEVA, M.G.

USSR/Plant Physiology - Mineral Nutrition.

: Ref Zhur - Biol., No 5, 1958, 19957

Abs Jour : ¿Zcitseva, M.G.

Author

: Botanical Institute of the Academy of Sciences of the Inst

Tad::hSSR.

: Study of the Processes of Nitrogen and Phosphorus Absorp-Title

tion by the Root-Systems of Pamir Plants in Connection with Temperature and Light Conditions of High Altitudes.

: Tr. In-ta botan. AN TadzhSSR, 1956, 47, 3-63. Oric Pub

: The absorption of N and P by barley, which was brought in from hot low- altitude regions of Centual Asia van Abstract

studied in the Pamir biological station in the years of 1951-1953. The experiments were carried but in a water

culture on a Helrichel mixture under full illumination, under glass and under white cloth, also on plants which

Card 1/3

USSR/Plant Physiology - Mineral Nutrition.

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Abs Jour : Ref Zhur - Biol., No 5, 1958, 19957

in both protected and unprotected plants was within the limits of experimental errors. The absorption of N and P by wildly growing plants (clinelimus, wormwood, astragal, red grass and others) from a phosphate buffer solution (pil 7) with kNO₂ was studied on roots cleared of the soil but attached to the plants. The absorbing mechanism of these plants was resistant to low temperatures: a -4 to -6 degree night temperature did not damage the living root endings of the clinelimus, astragal and reed grass, and nor mal absorption was restored in the norning hours. An assumption was made that the basis of periodicity of element absorption of mineral nutrition was due to the disparity in the rates of absorption of substances and their utilization in metabolism.

Card 3/3

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			(DYES, determ.	of gastric	secretion rate	9)		
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ZAITSEV, V.F., MYASNIKOV, L.A.; KASATKINA, L.V.; LOBOVA, N.M.; SUKASOVA, T.T.

The effect of ascorbic acid on experimental atherosclerosis.

Cor Vasa 6 no.1:19-25 *64.

1. Institute of Internal Medicine, Academy of Medical Sciences, Moscov.